



REPLACEMENT SHEET

Figure 3

	(1)	1	10	20	30	40	54
L1R-P07612	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASQTKCDIEIGNFYIRQNHGCNLTVK					
L1R-AAA48076	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASQTKCDIEIGNFYIRQNHGCNLTVK					
M1R-AAA60821	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASQTKCDIEIGNFYIRQNHGCNLTVK					
M1R-P33040	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASQTKCDIEIGNFYIRQNHGCNLTVK					
Consensus	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASQTKCDIEIGNFYIRQNHGCNLTVK					
	(55)	55	60	70	80	90	108
L1R-P07612	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF					
L1R-AAA48076	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF					
M1R-AAA60821	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF					
M1R-P33040	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF					
Consensus	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF					
	(109)	109	120	130	140	150	162
L1R-P07612	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA					
L1R-AAA48076	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA					
M1R-AAA60821	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA					
M1R-P33040	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA					
Consensus	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA					
	(163)	163	170	180	190	200	216
L1R-P07612	(163)	LMQLTTKATTQIAPKQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI					
L1R-AAA48076	(163)	LMQLTTKATTQIAPKQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI					
M1R-AAA60821	(163)	LMQLTTKATTQIAPKQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI					
M1R-P33040	(163)	LMQLTTKATTQIAPKQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI					
Consensus	(163)	LMQLTTKATTQIAPKQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI					
	(217)	217	230	240	250		
L1R-P07612	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTDMON				SEQ ID NO. 1	
L1R-AAA48076	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTDMON				SEQ ID NO. 2	
M1R-AAA60821	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTDION				SEQ ID NO. 3	
M1R-P33040	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTDION				SEQ ID NO. 4	
Consensus	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTDMON				SEQ ID NO. 5	

Figure 4

	(1)	1	10	20	30	40	54
A27L-P11258	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPDRKREQIVKADEDDNEETLKQRLTNL					
A27L-P20535	(1)	MDGTLFPGDDDLAIPATEFFSTKADKKPEAKREAIVKADEDDNEETLKQRLTNL					
A30L-P33816	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPDRKREQIVKADGDDNEETLKQRLTNL					
A30L-AAA60882	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPDRKREQIVKADGDDNEETLKQRLTNL					
Consensus	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPDRKREQIVKADGDDNEETLKQRLTNL					
	(55)	55	60	70	80	90	108
A27L-P11258	(55)	EKKITNVTTKFEQIEKCKRNDEVLFRLNHAETLRAAMISLAKKIDVQTGRRP					
A27L-P20535	(55)	EKKITNVTTKFEQIEKCKRNDEVLFRLNHAETLRAAMISLAKKIDVQTGRRP					
A30L-P33816	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP					
A30L-AAA60882	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP					
Consensus	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP					
	(109)	109					
A27L-P11258	(109)	YE	SEQ ID NO. 6				
A27L-P20535	(109)	YE	SEQ ID NO. 7				
A30L-P33816	(109)	YE	SEQ ID NO. 8				
A30L-AAA60882	(109)	YE	SEQ ID NO. 9				
Consensus	(109)	YE	SEQ ID NO. 10				

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Figure 5

	(1)	1	10	20	30	40	54
A33R-H42520	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIGLCIRISMVISLLSMITMSAF					
A33R-AAA48260	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIGLCIRISMVISLLSMITMSAF					
A36R-P33850	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIGICIRISMVISLLSMITMSAF					
A36R-AAA60888	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIGICIRISMVISLLSMITMSAF					
Consensus	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIGICIRISMVISLLSMITMSAF					
	(55)	55	60	70	80	90	108
A33R-H42520	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYDHKESCNGLYYQGS					
A33R-AAA48260	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYDHKESCNGLYYQGS					
A36R-P33850	(55)	LIVRLNQCMSANEAAITD-ATAVAAALSTHRKVASSTTQYKHQESCNGLYYQGS					
A36R-AAA60888	(55)	LIVRLNQCMSANEAAITD-ATAVAAALSTHRKVASSTTQYKHQESCNGLYYQGS					
Consensus	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYKHQESCNGLYYQGS					
	(109)	109	120	130	140	150	162
A33R-H42520	(109)	CYILHSDYQLFSDAKANCTAESSTLPNKSDVLITWLIDYVEDTWGSDGNPITKT					
A33R-AAA48260	(109)	CYILHSDYQLFSDAKANCTAESSTLPNKSDVLITWLIDYVEDTWGSDGNPITKT					
A36R-P33850	(108)	CYIFHSDYQLFSDAKANCTAESSTLPNKSDVLTTLWLIDYVEDTWGSDGNPITKT					
A36R-AAA60888	(108)	CYIFHSDYQLFSDAKANCTAESSTLPNKSDVLTTLWLIDYVEDTWGSDGNPITKT					
Consensus	(109)	CYILHSDYQLFSDAKANCTAESSTLPNKSDVLTTLWLIDYVEDTWGSDGNPITKT					
	(163)	163	170	185			
A33R-H42520	(163)	TSDYQSDVVSQEVRYFCVKTMN			SEQ ID NO. 11		
A33R-AAA48260	(163)	TSDYQSDVVSQEVRYFCVKTMN			SEQ ID NO. 12		
A36R-P33850	(162)	TTDYQSDVVSQEVRYFCVKTMN			SEQ ID NO. 13		
A36R-AAA60888	(162)	TTDYQSDVVSQEVRYFCVKTMN			SEQ ID NO. 14		
Consensus	(163)	TSDYQSDVVSQEVRYFCVKTMN			SEQ ID NO. 15		

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Figure 6

	(1)	1	10	20	30	40	55
D8L-P04195	(1)	MPQQLSPINIETKKAISNARLKPLDIHYNESKPTTIQNTGKLVRI NFKGGYISGG					
D8L-AAA48107	(1)	MPQQLSPINIETKKAISNARLKPLDIHYNESKPTTIQNTGKLVRI NFKGGYISGG					
F8L-P33065	(1)	MPQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLVRI NFKGGYLSGG					
F8L-AAA60846	(1)	MPQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLVRI NFKGGYLSGG					
Consensus	(1)	MPQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLVRI NFKGGYISGG					
	(56)	56	70	80	90	110	
D8L-P04195	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH					
D8L-AAA48107	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH					
F8L-P330651	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH					
F8L-AAA60846	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH					
Consensus	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH					
	(111)	111	120	130	140	150	165
D8L-P04195	(111)	DDGLIIISIFLQVLDHKNVYFQKIVNQ LDSIRSANTSAPFDSVFYLDNLLPSKLD					
D8L-AAA48107	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQ LDSIRSANTSAPFDSVFYLDNLLPSTLD					
F8L-P33065	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQ LDSIRTANTSAPFDSVFYLDNLLPSKLD					
F8L-AAA60846	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQ LDSIRTANTSAPFDSVFYLDNLLPSKLD					
Consensus	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQ LDSIRSANTSAPFDSVFYLDNLLPSKLD					
	(166)	166	180	190	200	210	220
D8L-P04195	(166)	YFTYLGTTINHSADAVWII FFTPINIHS DQLSKFRTLLSSSNHDGKPHYITENYR					
D8L-AAA48107	(166)	YFTYLGTTINHSADAVWII FFTPINIHS DQLSKFRTLLSSSNHDGKPHYITENYR					
F8L-P33065	(166)	YFKYLGTTINHSADAVWII FFTPINIHS DQLSKFRTLLSLSNHEGKPHYITENYR					
F8L-AAA60846	(166)	YFKYLGTTINHSADAVWII FFTPINIHS DQLSKFRTLLSLSNHEGKPHYITENYR					
Consensus	(166)	YFTYLGTTINHSADAVWII FFTPINIHS DQLSKFRTLLSSSNHDGKPHYITENYR					
	(221)	221	230	240	250	260	275
D8L-P04195	(221)	NPYKLND DTQVYYSGEIIRAATTSPARENYFMRWLS DLRETCFSYYQKYIEGNKT					
D8L-AAA48107	(221)	NPYKLND DTQVYYSGEIIRAATTSPARENYFMRWLS DLRETCFSYYQKYIEGNKT					
F8L-P33065	(221)	NPYKLND DTEVYYSGEIIRAATTSPARENYFMRWLS DLRETCFSYYQKYIEGNKT					
F8L-AAA60846	(221)	NPYKLND DTEVYYSGEIIRAATTSPARENYFMRWLS DLRETCFSYYQKYIEGNKT					
Consensus	(221)	NPYKLND DTQVYYSGEIIRAATTSPARENYFMRWLS DLRETCFSYYQKYIEGNKT					
	(276)	276	290	304			
D8L-P04195	(276)	FAIIAIVFVFILTAILFFMSRRYSREKQN		SEQ ID NO. 16			
D8L-AAA48107	(276)	FAIIAIVFVFILTAILFLMSRRYSREKQN		SEQ ID NO. 17			
F8L-P33065	(276)	FAIIAIVFVYILTAILFLMSRRYSREKQN		SEQ ID NO. 18			
F8L-AAA60846	(276)	FAIIAIVFVYILTAILFLMSRRYSREKQN		SEQ ID NO. 19			
Consensus	(276)	FAIIAIVFVFILTAILFLMSRRYSREKQN		SEQ ID NO. 20			

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Figure 7

	(1)	1	10	20	30	40	54
B5R-JQ1799	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDQGYHS					
B5R-D42526	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNNNQKVTFTCDQGYHS					
B7R-NP_042219	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS					
B7R-CAA49116	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS					
B7R-G36855	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS					
B7R-2015436GX	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS					
Consensus	(1)	MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS					
	(55)	55	60	70	80	90	108
B5R-JQ1799	(55)	SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF					
B5R-D42526	(55)	SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF					
B7R-NP_042219	(55)	LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF					
B7R-CAA49116	(55)	LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF					
B7R-G36855	(55)	LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF					
B7R-2015436GX	(55)	LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF					
Consensus	(55)	LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF					
	(109)	109	120	130	140	150	162
B5R-JQ1799	(109)	RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE					
B5R-D42526	(109)	RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE					
B7R-NP_042219	(109)	RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE					
B7R-CAA49116	(109)	RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE					
B7R-G36855	(109)	RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE					
B7R-2015436GX	(109)	RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE					
Consensus	(109)	RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE					
	(163)	163	170	180	190	200	216
B5R-JQ1799	(163)	VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT					
B5R-D42526	(163)	VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
B7R-NP_042219	(163)	VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
B7R-CAA49116	(163)	VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
B7R-G36855	(163)	VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
B7R-2015436GX	(163)	VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
Consensus	(163)	VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI					
	(217)	217	230	240	250	260	270
B5R-JQ1799	(217)	LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDDETDL SKLSKDVVQYEQE					
B5R-D42526	(217)	LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDDETDL SKLSKDVVQYEQE					
B7R-NP_042219	(217)	LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDDETDL SKLSKDVVQYEQE					
B7R-CAA49116	(217)	LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDDETDL SKLSKDVVQYEQE					
B7R-G36855	(217)	LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDDETDL SKLSKDVVQYEQE					
B7R-2015436GX	(217)	LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDDETDL SKLSKDVVQYEQE					
Consensus	(217)	LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDDETDL SKLSKDVVQYEQE					

Figure 7 (continued)

	(271)	271	280	290	300	317
B5R-JQ1799	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCDKNNDQYKFHKLLP				
B5R-D42526	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCDKNNDQYKFHKLLP				
B7R-NP_042219	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL				
B7R-CAA49116	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL				
B7R-G36855	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL				
B7R-2015436GX	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL				
Consensus	(271)	IESLEATYHIIIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL				
B5R-JQ1799	SEQ ID NO.	21				
B5R-D42526	SEQ ID NO.	22				
B7R-NP_042219	SEQ ID NO.	23				
B7R-CAA49116	SEQ ID NO.	24				
B7R-G36855	SEQ ID NO.	25				
B7R-2015436GX	SEQ ID NO.	26				
Consensus	SEQ ID NO.	27				

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Figure 8

	(1)	1	10	20	30	40	55
H5R-P07242	(1)	MAWSITNKADTSSFTKMAEIRAH LKNSAENKDKNEDIFPEDV IIPSTKPKTKRAT					
H5R-E42514	(1)	MAWSITNKADTSSFTKMAEIRAH LKNSAENKDKNEDIFPEDV IIPSTKPKTKRAT					
I5R-P33062	(1)	MAWSITNKADTSSFTKMAEIRAH LRNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					
I5R-AAA60836	(1)	MAWSITNKADTSSFTKMAEIRAH LRNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					
Consensus	(1)	MAWSITNKADTSSFTKMAEIRAH LKNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					

	(56)	56	70	80	90	100	110
H5R-P07242	(56)	TPRKPAATKRSTKKEE-----VEEEV VIEEYHQ TTEKNSP----SPGVSDIVESV					
H5R-E42514	(56)	TPRKPAATKRSTKKEE-----VEEEV VIEEYHQ TTEKNSP----SPGVGDIVESV					
I5R-P33062	(56)	TPRKPAATKRSTKKDKEKEEVEEEV VIEEYHQ TTEENSPPPSSSPGVGNIVESV					
I5R-AAA60836	(56)	TPRKPAATKRSTKKDKEKEEV-EEEV VIEEYHQ TTEENSPPPSSSPGVGDIVESV					
Consensus	(56)	TPRKPAATKRSTKKDKEKEEVEEEV VIEEYHQ TTEKNSPPPSSSPGVGDIVESV					

	(111)	111	120	130	140	150	165
H5R-P07242	(102)	AAVELDDSDGDD-----EPMVQVEAGKVNHSARSDLS DLKVATDNIVKSLK					
H5R-E42514	(102)	AAVELDDSDGDD-----EPMVQVEAGKVNHSARSDLS DLKVATDNIVKSLK					
I5R-P33062	(111)	TAVELDDSN GDDNDNDNDNDNEPMVQVEAGKVNHSARSDLS DLKVATDNIVKSLK					
I5R-AAA60836	(110)	TAVELDDSN GDDNDNDNDNDNEPMVQVEAGKVNHSARSDLS DLKVATDNIVKSLK					
Consensus	(111)	TAVELDDSN GDDNDNDNDNDNEPMVQVEAGKVNHSARSDLS DLKVATDNIVKSLK					

	(166)	166	180	190	200	210	220
H5R-P07242	(148)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITT LSDLVTEGKSKVVRKKVKTCK					
H5R-E42514	(148)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITT LSDLVTEGKSKVVRKKVKTCK					
I5R-P33062	(166)	KIITRISAVSTVLEDVQAAGISRQFTSMTKSIT T LSDLVTEGKSKVVRKKVKTCK					
I5R-AAA60836	(165)	KIITRISAVSTVLEDVQAAGISRQFTSMTKSIT T LSDLVTEGKSKVVRKKVKTCK					
Consensus	(166)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITT LSDLVTEGKSKVVRKKVKTCK					

	(221)	221	
H5R-P07242	(203)	K	SEQ ID NO. 28
H5R-E42514	(203)	K	SEQ ID NO. 29
I5R-P33062	(221)	K	SEQ ID NO. 30
I5R-AAA60836	(220)	K	SEQ ID NO. 31
Consensus	(221)	K	SEQ ID NO. 32